

L Number	Hits	Search Text	DB	Time stamp
1	3	penner-reinhold.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:25
2	2	fleig-andrea.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:25
3	10	ltrpc2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:26
4	1	wo adj "200029571"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:51
5	1	wo adj "200040614"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:27
6	2	6548272.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/29 15:51

10007706 Results:

SEQ ID NO: 1

SUMMARIES

Result	Query					Description
No.	Score	Match	Length	DB	ID	
1	7950	100.0	1503	3	AAY92944	Aay92944 Human TRP
2	7950	100.0	1503	3	AAY95439	Aay95439 Human cal
3	7950	100.0	1503	3	AAB36865	Aab36865 Human put
4	7950	100.0	1503	5	ABB76459	Abb76459 Human lon
5	7950	100.0	1503	5	ABB84544	Abb84544 Human tra
6	7950	100.0	1503	7	ADC47022	Adc47022 Human LTR
7	7950	100.0	1503	7	ADC77685	Adc77685 Human 222
8	7950	100.0	1503	7	ADC83633	Adc83633 LTRPC3-re
9	7741	97.4	1469	6	ABR43185	Abr43185 Human REM
10	6740.5	84.8	1508	7	ADC47024	Adc47024 Rat LTRPC
11	6709	84.4	1507	7	ADC47034	Adc47034 Mouse LTR
12	2771	34.9	525	6	ADA56830	Ada56830 Human sec
13	2771	34.9	525	6	ABR47695	Abr47695 Human sec
14	2771	34.9	525	6	ABR00046	Abr00046 Human gen
15	2771	34.9	525	7	ADB91501	Adb91501 Human sec
16	2771	34.9	525	7	ADC74074	Adc74074 Human sec

RESULT 1

AAY92944
ID AAY92944 standard; protein; 1503 AA.
XX
AC AAY92944;
XX
DT 08-NOV-2000 (first entry)
XX
DE Human TRPC7 protein.
XX
KW Transmembrane protein; TRPC7; brain; transient receptor potential; TRP;
KW calcium channel function; human; gene therapy; periodic psychosis;
KW mutation.
XX
OS Homo sapiens.
XX
PN WO200029571-A1.
XX
PD 25-MAY-2000.
XX
PF 11-NOV-1999; 99WO-JP006289.
XX
PR 12-NOV-1998; 98JP-00321200.
XX
PA (EIKE) EIKEN KAGAKU KK.
XX
PI Shimizu N, Nagamine K;
XX
DR WPI; 2000-387784/33.
DR N-PSDB; AAA11284.
XX
PT Nucleic acids encoding transmembrane protein TRPC7 expressed in brain and
PT homologous to transient receptor potential protein useful in the of
PT treatment of associated diseases such as periodic psychosis.
XX
PS Claim 1; Page 64-71; 77pp; Japanese.
XX
CC The invention relates to the isolation of a nucleic acid encoding a
CC transmembrane protein TRPC7 which is expressed in brain and is homologous
CC to transient receptor potential (TRP) protein. This suggests that the
CC TRPC7 protein may have a calcium channel function. This sequence
CC represents the human TRPC7 protein. The DNA and protein can be used in
CC the diagnosis and treatment of disorders associated with TRPC7,

CC especially the screening, monitoring and treatment (by gene therapy) of
 CC periodic psychosis, which appears to be associated with mutations in the
 CC *TRPC7* gene
 XX
 SQ Sequence 1503 AA;

Query Match 100.0%; Score 7950; DB 3; Length 1503;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1503; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNDKQESLS 60
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 Db 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNDKQESLS 60
 |||||
 QY 61 SWIPENIKKKECVYFVESSKLSDAGKVVVCQCGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
 |||||
 Db 61 SWIPENIKKKECVYFVESSKLSDAGKVVVCQCGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
 |||||
 QY 121 EMPTDAFGDIVFTGLSQKVKKYVRRVSQDTPSSVIYHLMQHWGLDVPNLLISVTGGAKNF 180
 |||||
 Db 121 EMPTDAFGDIVFTGLSQKVKKYVRRVSQDTPSSVIYHLMQHWGLDVPNLLISVTGGAKNF 180
 |||||
 QY 181 NMKPRLKSISFRRLGLVKVAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSYKEGELITIG 240
 |||||
 Db 181 NMKPRLKSISFRRLGLVKVAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSYKEGELITIG 240
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 QY 241 VATWGTVHRREGLIHPGSFPAEYILDLEDGQGNLTCLDSNHSHFILVDDGTHGQYGEIP 300
 |||||
 Db 241 VATWGTVHRREGLIHPGSFPAEYILDLEDGQGNLTCLDSNHSHFILVDDGTHGQYGEIP 300
 |||||
 QY 301 LRTRLEKFISEQTKERGGVAIKIPIVCVVLLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
 |||||
 Db 301 LRTRLEKFISEQTKERGGVAIKIPIVCVVLLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
 |||||
 QY 361 DVIAQVANLPVSDITISLIRQQKLSVFFQEMFETFTESRIVEWTKIqidIVRRRQLLTVFR 420
 |||||
 Db 361 DVIAQVANLPVSDITISLIRQQKLSVFFQEMFETFTESRIVEWTKIqidIVRRRQLLTVFR 420
 |||||
 QY 421 EGKDGQQDVDAVILQALLKASRSQDHFGHENWDHQQLKLAVALAQNVRDIARSEIFMDEWQWK 480
 |||||
 Db 421 EGKDGQQDVDAVILQALLKASRSQDHFGHENWDHQQLKLAVALAQNVRDIARSEIFMDEWQWK 480
 |||||
 QY 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540
 |||||
 Db 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540
 |||||
 QY 541 VEDPERPACAPAAPRLQMHHVAQVLRRELLGFTQPLYPRPRHNDRLRLLLPVPHVKLNVQ 600
 |||||
 Db 541 VEDPERPACAPAAPRLQMHHVAQVLRRELLGFTQPLYPRPRHNDRLRLLLPVPHVKLNVQ 600
 |||||
 QY 601 GVSLRSLYKRSSGHVTMDPIRDLLIWAIVQRRELAGIIWAQSQDCIAAAALACSKILK 660
 |||||
 Db 601 GVSLRSLYKRSSGHVTMDPIRDLLIWAIVQRRELAGIIWAQSQDCIAAAALACSKILK 660
 |||||
 QY 661 ELSKEEEDTDSSEEMLALAEYEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
 |||||
 Db 661 ELSKEEEDTDSSEEMLALAEYEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
 |||||
 QY 721 ALEAKDMKFVSHGGIQAFLTKVWWGQLSVDNGLWRVTLCLM A FPLLLTGLISFREKRLQD 780
 |||||
 Db 721 ALEAKDMKFVSHGGIQAFLTKVWWGQLSVDNGLWRVTLCLM A FPLLLTGLISFREKRLQD 780
 |||||
 QY 781 VGTPAARARARAFFTAPVVVFHLNILSYFAFLCLFAYVLMVDFQPVPSWC ECAIYLWLFLSLV 840
 |||||
 Db 781 VGTPAARARARAFFTAPVVVFHLNILSYFAFLCLFAYVLMVDFQPVPSWC ECAIYLWLFLSLV 840
 |||||
 QY 841 CEEMRQLFYDPDECGLMKKAALYFSDFWNKL DVGAILLFVAGLTCRLI PATLYPGRVILS 900
 |||||
 Db 841 CEEMRQLFYDPDECGLMKKAALYFSDFWNKL DVGAILLFVAGLTCRLI PATLYPGRVILS 900
 |||||
 QY 901 LDFILFCLRLMHIFTISKTLGP KIIIVKRMMKDVFVFLLLAVWVVSFGVAKQAILIHNE 960

Db	901	LDFILFCLRLMHIFTISKTLGPKIIIVKRMMDVFFFLLLAVVVSFGVAKQALIHNE	960
Qy	961	RRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF	1020
Db	961	RRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF	1020
Qy	1021	PEWLTVELLCYLLFTNILLNLIAMFNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA	1080
Db	1021	PEWLTVELLCYLLFTNILLNLIAMFNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA	1080
Qy	1081	PPPFISSHLQLFIKRVVLKTPAKRHQQLKNKLEKNEAALLSWEIYLKENYLQRQFQQ	1140
Db	1081	PPPFISSHLQLFIKRVVLKTPAKRHQQLKNKLEKNEAALLSWEIYLKENYLQRQFQQ	1140
Qy	1141	KQRPEQKIEDISNKVADAMVLDLDDPLKRSGSMBQRLASLEEQVAQTARALHWIVRTLRA	1200
Db	1141	KQRPEQKIEDISNKVADAMVLDLDDPLKRSGSMEQRLASLEEQVAQTARALHWIVRTLRA	1200
Qy	1201	SGFSSEADVPVTLASQKAAEPPDAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE	1260
Db	1201	SGFSSEADVPVTLASQKAAEPPDAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE	1260
Qy	1261	KVPWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ	1320
Db	1261	KVPWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ	1320
Qy	1321	AGLPLNPMGRTGLRGRGSLSCFGPNHTLYPMVTRWRNEDGAICRKSIKKMLEVLLVVKLP	1380
Db	1321	AGLPLNPMGRTGLRGRGSLSCFGPNHTLYPMVTRWRNEDGAICRKSIKKMLEVLLVVKLP	1380
Qy	1381	LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI	1440
Db	1381	LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI	1440
Qy	1441	ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVDRRIPLYANHKTLLQKAAAEGF	1500
Db	1441	ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVDRRIPLYANHKTLLQKAAAEGF	1500
Qy	1501	AHY 1503	
Db	1501	AHY 1503	

RESULT 2
 AAY95439
 ID AAY95439 standard; protein; 1503 AA.
 XX
 AC AAY95439;
 XX
 DT 10-OCT-2000 (first entry)
 XX
 DE Human calcium channel polypeptide.
 XX
 KW Human; SOC-2/CRAC-1; calcium channel; store operated channel;
 KW calcium release activated channel; therapy; diagnosis;
 KW lymphocyte proliferative disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200040614-A2.
 XX
 PD 13-JUL-2000.
 XX
 PF 20-DEC-1999; 99WO-US029996.
 XX
 PR 30-DEC-1998; 98US-0114220P.
 PR 29-JAN-1999; 99US-0120018P.
 PR 22-JUN-1999; 99US-0140415P.

DR N-PSDB; AAC68399.
XX
PT Novel nucleic acids encoding a MutT domain-containing polypeptide present
PT in human calcium channel protein TrpC7, useful for diagnostic and
PT therapeutic purposes.
XX
PS Claim 39; Page 65; 69pp; English.
XX
CC The present invention relates to human mutTCCH-1. Therapeutics involving
CC mutTCCH-1 may be useful for diagnosing and treating conditions associated
CC with aberrant levels of expression of (II) and for identifying agents
CC that are useful for treating diseases associated with
CC pyrophosphohydrolase and/or sugar-phosphate hydrolase activity
XX
SQ Sequence 1503 AA;

Query Match 100.0%; Score 7950; DB 3; Length 1503;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1503; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MEPSALRKAGSEQEEGFEGLPAAVTDLGMSNLRSNSSLFKSWRLQCPFGNNNDKQESLS 60
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Db 1 MEPSALRKAGSEQEEGFEGLPAAVTDLGMSNLRSNSSLFKSWRLQCPFGNNNDKQESLS 60

Qy 61 SWIPENIKKKECVYFVESSKLSDAGKVVQCQGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
|||
Db 61 SWIPENIKKKECVYFVESSKLSDAGKVVQCQGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120

Qy 121 EMPTDAFGDIVFTGLSQKVKKYVRRVSQDTPSSVIYHLMQHGLDPVNLLISVTGGAKNF 180
|||
Db 121 EMPTDAFGDIVFTGLSQKVKKYVRRVSQDTPSSVIYHLMQHGLDPVNLLISVTGGAKNF 180

Qy 181 NMKPRLKSIFRRLGLVKAQTTGAWIITGGSHGVMQVGEAVRDFSLSSSYKEGELITIG 240
|||
Db 181 NMKPRLKSIFRRLGLVKAQTTGAWIITGGSHGVMQVGEAVRDFSLSSSYKEGELITIG 240

Qy 241 VATWGTVHRREGLIHPGSPAAEYILDEDGQGNLTCLDSNHSHFILVDDGTHGQYGVIEP 300
|||
Db 241 VATWGTVHRREGLIHPGSPAAEYILDEDGQGNLTCLDSNHSHFILVDDGTHGQYGVIEP 300

Qy 301 LRTRLKEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
|||
Db 301 LRTRLKEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360

Qy 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKKIQDIVRRQLLTVFR 420
|||
Db 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKKIQDIVRRQLLTVFR 420

Qy 421 EGKDGQQDVEDVATLQALLKASRSQDHFGHENWDHQLKLAVALNRVDIARSEIFMDEWQWK 480
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Db 421 EGKDGQQDVEDVATLQALLKASRSQDHFGHENWDHQLKLAVALNRVDIARSEIFMDEWQWK 480

Qy 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540
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Db 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540

Qy 541 VEDPERPACAPAAPRLQMHHVAQVLRELLGDFTQPLYPRPRHNDRLRLLLPPVPHVKLNQ 600
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Db 541 VEDPERPACAPAAPRLQMHHVAQVLRELLGDFTQPLYPRPRHNDRLRLLLPPVPHVKLNQ 600

Qy 601 GVSLRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAALACSKILK 660
|||
Db 601 GVSLRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAALACSKILK 660

Qy 661 ELSKEEEDTDSSEEMLALAEYEHRAIGVTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
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Db 661 ELSKEEEDTDSSEEMLALAEYEHRAIGVTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720

Qy 721 ALEAKDMKVFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCLMLAFPLLTGLISFREKRLQD 780
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Db 721 ALEAKDMKVFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCLMLAFPLLTGLISFREKRLQD 780

Qy 781 VGTPAARARARAFFTAPVVVFHNLILSYFAFLCLFAYVLMVDFQPVPSWCECAIYLWLFSLV 840
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 Db 781 VGTPAARARARAFFTAPVVVFHNLILSYFAFLCLFAYVLMVDFQPVPSWCECAIYLWLFSLV 840
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 Qy 841 CEEMRQLFYDPDECGLMKAAALYFSDFWNKLDVGAILLFGVAGLTCLIPATLYPGRVILS 900
 |||||
 Db 841 CEEMRQLFYDPDECGLMKAAALYFSDFWNKLDVGAILLFGVAGLTCLIPATLYPGRVILS 900
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 Qy 901 LDFILFCLRLMHIFTISKTLGPKIIIVKRMMKDVFVLLAVWVVSFGVAKQALIHNE 960
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 Db 901 LDFILFCLRLMHIFTISKTLGPKIIIVKRMMKDVFVLLAVWVVSFGVAKQALIHNE 960
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 Qy 961 RRVWDWLFRGAVYHSYLTIFGQIPIGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF 1020
 |||||
 Db 961 RRVWDWLFRGAVYHSYLTIFGQIPIGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF 1020
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 Qy 1021 PEWLTVLLCLYLLFTNILLNLIAMFNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPAA 1080
 |||||
 Db 1021 PEWLTVLLCLYLLFTNILLNLIAMFNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPAA 1080
 |||||
 Qy 1081 PPPFILLSHLQLFIKRVVLKTPAKRHKQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
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 Db 1081 PPPFILLSHLQLFIKRVVLKTPAKRHKQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
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 Qy 1141 KQRPEQKIEDISNKVADAMVLDLDPKRSMSMQRLASLEEQVAQTARALHWIVRTLRA 1200
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 Db 1141 KQRPEQKIEDISNKVADAMVLDLDPKRSMSMQRLASLEEQVAQTARALHWIVRTLRA 1200
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 Qy 1201 SGFSSEADVPTLASQKAAEEDPAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
 |||||
 Db 1201 SGFSSEADVPTLASQKAAEEDPAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
 |||||
 Qy 1261 KVPWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIQYNNVVDGLRDRRSFHGPYTVQ 1320
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 Db 1261 KVPWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIQYNNVVDGLRDRRSFHGPYTVQ 1320
 |||||
 Qy 1321 AGLPLNPMGRGLRGRGSLSCFGPNHTLYPMVTRRRNEDGAICRKSIIKKMLEVLVVKLP 1380
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 Db 1321 AGLPLNPMGRGLRGRGSLSCFGPNHTLYPMVTRRRNEDGAICRKSIIKKMLEVLVVKLP 1380
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 Db 1381 LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI 1440
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 Qy 1501 AHY 1503
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 Db 1501 AHY 1503

SUMMARIES

Result	Query					Description
	No.	Score	Match	Length	DB	ID
1	7950	100.0	1503	4	US-09-600-087-2	Sequence 2, Appli
2	2216	27.9	1095	4	US-09-636-215-780	Sequence 780, App
3	2216	27.9	1095	4	US-09-685-166A-780	Sequence 780, App
4	2212	27.8	1095	3	US-09-112-096-15	Sequence 15, Appli
5	2212	27.8	1095	4	US-09-636-215-778	Sequence 778, App
6	2212	27.8	1095	4	US-09-685-166A-778	Sequence 778, App
7	1423	17.9	1533	1	US-08-623-679-9	Sequence 9, Appli
8	1423	17.9	1533	3	US-08-933-774-9	Sequence 9, Appli
9	1423	17.9	1533	3	US-09-181-030-9	Sequence 9, Appli
10	1423	17.9	1533	4	US-09-534-242-9	Sequence 9, Appli
11	1423	17.9	1533	4	US-09-454-854-9	Sequence 9, Appli

12	1423	17.9	1533	4	US-09-164-671-9	Sequence 9, Appli
13	1341	16.9	1497	1	US-08-623-679-7	Sequence 7, Appli
14	1341	16.9	1497	3	US-08-933-774-7	Sequence 7, Appli
15	1341	16.9	1497	3	US-09-181-030-7	Sequence 7, Appli

RESULT 1
 US-09-600-087-2
 ; Sequence 2, Application US/09600087
 ; Patent No. 6548272
 ; GENERAL INFORMATION:
 ; APPLICANT: Shimizu, No. 6548272uyoshi
 ; APPLICANT: Nagamine, Kentaro
 ; TITLE OF INVENTION: GENE CODING FOR A NOVEL TRANSMEMBRANE PROTEIN
 ; FILE REFERENCE: 11283-004001
 ; CURRENT APPLICATION NUMBER: US/09/600,087
 ; CURRENT FILING DATE: 2000-07-11
 ; PRIOR APPLICATION NUMBER: PCT/JP99/06289
 ; PRIOR FILING DATE: 1999-11-11
 ; PRIOR APPLICATION NUMBER: JP/321200/1998
 ; PRIOR FILING DATE: 1998-11-12
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 1503
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (320) ... (344)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (750) ... (773)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (794) ... (818)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (867) ... (891)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (900) ... (924)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (932) ... (956)
 ; NAME/KEY: TRANSMEM
 ; LOCATION: (1024) ... (1048)
 US-09-600-087-2

Query Match 100.0%; Score 7950; DB 4; Length 1503;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1503; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNDKQESLS 60
 |||||||
 Db 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNDKQESLS 60
 |||||||
 Qy 61 SWIPENIKKKECVYFVESSKLSDAGKVVQCQGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
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 Db 61 SWIPENIKKKECVYFVESSKLSDAGKVVQCQGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
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 Qy 121 EMPTDAFGDIVFTGLSQKVKKYVRVSQDTPSSVIYHLMTOQHWGLDVPNLLISVTGGAKNF 180
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 Db 121 EMPTDAFGDIVFTGLSQKVKKYVRVSQDTPSSVIYHLMTOQHWGLDVPNLLISVTGGAKNF 180
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 Qy 181 NMKPRLKSIFRRLVKVAQTTGAWIITGGSHTGVMQVGEAVRDFSLSSSYKEGELITIG 240
 |||||||
 Db 181 NMKPRLKSIFRRLVKVAQTTGAWIITGGSHTGVMQVGEAVRDFSLSSSYKEGELITIG 240
 |||||||
 Qy 241 VATWGTVHRREGLIHPGSPFAEYILDDEDGQGNLTCLDSNHSHFILVDDGTHGQYGVEIP 300
 |||||||
 Db 241 VATWGTVHRREGLIHPGSPFAEYILDDEDGQGNLTCLDSNHSHFILVDDGTHGQYGVEIP 300
 |||||||
 Qy 301 LTRTRLEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
 |||||||
 Db 301 LTRTRLEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360

Qy 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKI QDIVRRRQLLTVFR 420
|||
Db 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKI QDIVRRRQLLTVFR 420
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Qy 421 EGKDGQQDGVDAILQALLKASRSQDHFGHENWDHQLKLAVALNRVDIARSEIFMDEWQWK 480
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Db 421 EGKDGQQDGVDAILQALLKASRSQDHFGHENWDHQLKLAVALNRVDIARSEIFMDEWQWK 480
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Qy 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540
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Db 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYENLDPSCLFHSKLQKVL 540
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Qy 541 VEDPERPACAPAAAPRLQMHHVAQVLRELLGFTQPLYPRPRHNDRLRLLLPPVPHVKNVQ 600
|||
Db 541 VEDPERPACAPAAAPRLQMHHVAQVLRELLGFTQPLYPRPRHNDRLRLLLPPVPHVKNVQ 600
|||
Qy 601 GVSLSRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAALACSKILK 660
|||
Db 601 GVSLSRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAALACSKILK 660
|||
Qy 661 ELSKEEEDTDSSEEMLALAEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
|||
Db 661 ELSKEEEDTDSSEEMLALAEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
|||
Qy 721 ALEAKDMKFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCMLAFPLLTGLISFREKRLQD 780
|||
Db 721 ALEAKDMKFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCMLAFPLLTGLISFREKRLQD 780
|||
Qy 781 VGTPAARARAFFTAPVVVFHNLILSYFAFLCLFAYVLMVDFQPVPSCECAIYLWLFSLV 840
|||
Db 781 VGTPAARARAFFTAPVVVFHNLILSYFAFLCLFAYVLMVDFQPVPSCECAIYLWLFSLV 840
|||
Qy 841 CEEMRQLFYDPDECGLMKAALYFSDFWNKLDVGAIILLFVAGLTCRLIPATLYPGRVILS 900
|||
Db 841 CEEMRQLFYDPDECGLMKAALYFSDFWNKLDVGAIILLFVAGLTCRLIPATLYPGRVILS 900
|||
Qy 901 LDFILFCRLMHIFTISKTLGPKIIIVKRMMKDVFVLLAVWVVSFGVAKQAILIHNE 960
|||
Db 901 LDFILFCRLMHIFTISKTLGPKIIIVKRMMKDVFVLLAVWVVSFGVAKQAILIHNE 960
|||
Qy 961 RRVDWLFRGAVYHSYLTIFGQIPGYIDGVFNPEHCSPNGTDYKPKCPESDATQQRPAF 1020
|||
Db 961 RRVDWLFRGAVYHSYLTIFGQIPGYIDGVFNPEHCSPNGTDYKPKCPESDATQQRPAF 1020
|||
Qy 1021 PEWLTVLLCLYLLFTNILLNLIAFMNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA 1080
|||
Db 1021 PEWLTVLLCLYLLFTNILLNLIAFMNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA 1080
|||
Qy 1081 PPPFILLSHLQLFIKRVLKTPAKRHQQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
|||
Db 1081 PPPFILLSHLQLFIKRVLKTPAKRHQQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
|||
Qy 1141 KQRPEQKIEDISNKVADAMVLDLDDPLKRGSGSMEQRLASLEEVAQTARALHWIVRTLRA 1200
|||
Db 1141 KQRPEQKIEDISNKVADAMVLDLDDPLKRGSGSMEQRLASLEEVAQTARALHWIVRTLRA 1200
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Qy 1201 SGFSSEADVPTLASQKAAEPPDAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
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Db 1201 SGFSSEADVPTLASQKAAEPPDAEPGGRKKTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
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Qy 1261 KVPWETEFLIYDPPFYTAERKDAAMDPMDGDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ 1320
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Db 1261 KVPWETEFLIYDPPFYTAERKDAAMDPMDGDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ 1320
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Qy 1321 AGLPLNPMGRGLRGRGSLSCFGPNHTLYPMVTRWRRNEDGAICRKSIIKKMLEVLLVVKLP 1380
|||
Db 1321 AGLPLNPMGRGLRGRGSLSCFGPNHTLYPMVTRWRRNEDGAICRKSIIKKMLEVLLVVKLP 1380
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Qy 1381 LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKGMEVYKGYMDPRNTDNAWI 1440
|||

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Db      1381 LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDPRNTDNAWI 1440
QY      1441 ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVVDRRIPLYANHKTLLQKAAAEFG 1500
Db      1441 ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVVDRRIPLYANHKTLLQKAAAEFG 1500
QY      1501 AHY 1503
Db      1501 AHY 1503

```

RESULT 2
US-09-636-215-780
; Sequence 780, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 780
; LENGTH: 1095
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(1095)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-636-215-780

Db	254	VDNGCHGHTVEAKLNRQLEKYISSERTIQDSNYGGKIPIVCFAQGGGKETLKAINTSIKN	313
Qy	347	GTPCVVVEGSGRVADVIAQVANLPVSD- ITISLIQQKLSVFFQEMFETFTESRIVEWTKK	405
Db	314	KIPCVVVEGSGQIADVIASL--VEVEDALTSSAVKEKLVRFLPRTVSRLPSEEETESWIKW	371
Qy	406	IQDIVRRRQLLTVFREGKDGQQDGVDAVILQALLKASRSQDHFGHENWDHQLKLAVALNRV	465
Db	372	LKEILECSHLLTVKMEAGEDEIVSNAISYALYKAFSTSEQ- DKDNWNGQLKLLWEWNQL	430
Qy	466	DIARSEIFMDEWQWKPSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTWDTLLYLYEN	525
Db	431	DLANDEIFTNDRRWESADLQEVMTALIKDRPKFVRLFLENGLNLRKPLTHDVLTEPSN	490
Qy	526	LDPSCLFHSKLQKVLVEDPERPACAPAPRLQMHVAVQLRELLGDFDTQPLYPRPRHNDR	585
Db	491	-HFSTLVYRNQL-----IAKNSYNDALLTFVWKLVANFRRGFRKEDR- NGR	534
Qy	586	LRLLLPVPHVKLNVQGVSLRSLYKRSSGHVTFTMDPIRDLIWIWAVQNRRELAGIWIWAQS	645
Db	535	-----DEMDIELHDVS-----PITRHPLQALFIWAILQNKKEKLSKVIWEQT	575
Qy	646	QDCIAAALACSKILKELSKEEEDTDSSEEMLALAEYYEHRAIGVFTECYRKDEERAQKL	705
Db	576	RGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSSDEDLAEQLL	635
Qy	706	TRVSEAWGKTTCLQLALEAKDMKFVSHGGIQAFLTKVWWGQLSVDNGLWRVTLCLMIAFPL	765
Db	636	VYSCEAWGGSNCLELAVEATDQHFIAQPGVQNFLSKQWYGEISRTDKWKIILCLIFIPL	695
Qy	766	LLTGLISFREKRLQDVGTPAARAR-----AFTTAPVVVFHLNILSYFAFLCLFAYVLM	818
Db	696	VGCGFVFSRKK-----PVDKHKLLWYYVAFFTSPFVVFWSNVVFYIAFLLLFAYVLL	748
Qy	819	VDFQPVPWSCECAIYLWLFLSLVCEEMRQLFYDPDECGLMKKAALYFSDFWNKLDVGAIL	878
Db	749	MDFHSVPHPPELVLYSLVFVLFCDERVQWYVN-----GVNYFTDLWNVMDTLGLFY	799
Qy	879	FVAGLTTRL---IPATLYPGRVILSLDFILFCLRLMHIFTISKTLGPKIIIVKRMMKDVF	935
Db	800	FIAGIVFRLHSNKSSLYSGRVIFCLDYIIFTLRLIHFVSRNLGPKIIMLQRMLIDVF	859
Qy	936	FFFLFLLAVVVSGFVAKQAILIHNERRWDLFRGAVYHSYLTIIFGQIPGYIDGVNFNPEH	995
Db	860	FFFLFLFAXWMVAFGVARQGILRQNEMQRWRWIFRSVIYEPYFLAMFGQVPSDVGTTYDFAH	919
Qy	996	CSPNGTDPYKPKCPESDATQQRPAFPEWLTVLLLCLYLFTNILLNLLIAMFNYTFQV	1055
Db	920	CTFTGNES-KPLCVELD-EHNLPRFPEWITIPLVCIYMLSTNILLVNLVAMFGYTVGTV	977
Qy	1056	QEHTDQIWKFQRHDLIEEYHGRPAAPPFILLSHLQLFIKRVLKTPAKRHQKLNKLEK	1115
Db	978	QENNDQVWKFQRYFLVQEYCSRLNIPFPFIVFAYFYMVVKKCFKCCCKEKNMESSVCCFK	1037
Qy	1116	NEEAALLSWEIYLKENYLQRQFQQKQRPEQK-----IEDISNKV	1155
Db	1038	NEDNETLAWEGVMKENYLVKINTKANDTSEEMRHRFRQLDTKLNDLKGLLKEIANKI	1094

SUMMARIES

Result	Query					Description	
	No.	Score	Match	Length	DB	ID	
1	7950	100.0	1503	1	TRL2	HUMAN	094759 homo sapien
2	1282.5	16.1	2032	1	TRPG	CAEEL	Q93971 caenorhabdi
3	659	8.3	1017	1	TRL3	HUMAN	Q9hcf6 homo sapien
4	450	5.7	1418	1	CE11	CAEEL	P34641 caenorhabdi
5	436.5	5.5	350	1	NUD9	HUMAN	Q9bw91 homo sapien

6	377.5	4.7	260	1	YQ08_CAEEL	Q09297 caenorhabd
7	356	4.5	1027	1	TRPL_CAEEL	P34586 caenorhabd
8	344	4.3	1124	1	TRPL_DROME	P48994 drosophila
9	341.5	4.3	975	1	TRP5_MOUSE	Q9qx29 mus musculu
10	340	4.3	973	1	TRP5_HUMAN	Q9ul62 homo sapien
11	334.5	4.2	974	1	TRP5_RABIT	062852 oryctolagus
12	331	4.2	885	1	TRP2_RAT	Q9r283 rattus norv
13	331	4.2	977	1	TRP4_HUMAN	Q9ubn4 homo sapien
14	324.5	4.1	981	1	TRP4_BOVIN	P79100 bos taurus
15	321.5	4.0	1275	1	TRP_DROME	P19334 drosophila
16	321	4.0	977	1	TRP4_RAT	Q35119 rattus norv

RESULT 1

TRL2_HUMAN

ID TRL2_HUMAN STANDARD; PRT; 1503 AA.

AC 094759; Q96KN6;

DT 30-MAY-2000 (Rel. 39, Created)

DT 30-MAY-2000 (Rel. 39, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE Long transient receptor potential channel 2 (LTrpC2) (Transient

DE receptor potential channel 7) (TrpC7).

GN TRPM2 OR LTRPC2 OR TRPC7 OR KNP3.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A. (ISOFORM 1).

RC TISSUE=Brain;

RX MEDLINE=99026133; PubMed=9806837;

RA Nagamine K., Kudoh J., Minoshima S., Kawasaki K., Asakawa S., Ito F.,

RA Shimizu N.;

RT "Molecular cloning of a novel putative Ca²⁺ channel protein (TRPC7)

RT highly expressed in brain.";

RL Genomics 54:124-131(1998).

RN [2]

RP SEQUENCE FROM N.A. (ISOFORM 2).

RX MEDLINE=22075135; PubMed=11960981;

RA Wehage E., Eisfeld J., Heiner I., Jungling E., Zitt C., Luckhoff A.;

RT "Activation of the cation channel long transient receptor potential

RT channel 2 (LTRPC2) by hydrogen peroxide. A splice variant reveals a

RT mode of activation independent of ADP-ribose.";

RL J. Biol. Chem. 277:23150-23156(2002).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=20289799; PubMed=10830953;

RA Hattori M., Fujiyama A., Taylor T.D., Watanabe H., Yada T.,

RA Park H.-S., Toyoda A., Ishii K., Totoki Y., Choi D.-K., Groner Y.,

RA Soeda E., Ohki M., Takagi T., Sakaki Y., Taudien S., Blechschmidt K.,

RA Polley A., Menzel U., Delabar J., Kumpf K., Lehmann R., Patterson D.,

RA Reichwald K., Rump A., Schillhabel M., Schudy A., Zimmermann W.,

RA Rosenthal A., Kudoh J., Shibuya K., Kawasaki K., Asakawa S.,

RA Shintani A., Sasaki T., Nagamine K., Mitsuyama S., Antonarakis S.E.,

RA Minoshima S., Shimizu N., Nordsiek G., Hornischer K., Brandt P.,

RA Scharfe M., Schoen O., Desario A., Reichelt J., Kauer G., Bloecker H.,

RA Ramser J., Beck A., Klages S., Hennig S., Riesselmann L., Dagand E.,

RA Wehrmeyer S., Borzym K., Gardiner K., Nizetic D., Francis F.,

RA Lehrach H., Reinhardt R., Yaspö M.-L.;

RT "The DNA sequence of human chromosome 21.";

RL Nature 405:311-319(2000).

CC -!- FUNCTION: May be a calcium channel.

CC -!- SUBCELLULAR LOCATION: Integral membrane protein (Probable).

CC -!- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;

CC Comment=Additional isoforms seem to exist;

CC Name=1;

CC IsoId=094759-1; Sequence=Displayed;

CC Name=2;

CC IsoId=094759-2; Sequence=VSP_006574, VSP_006575;

CC -!- TISSUE SPECIFICITY: Highly expressed in brain.

CC -!- SIMILARITY: Belongs to the transient receptor family. LTrpC
 CC subfamily.
 CC -----
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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 CC or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL; AB001535; BAA34700.1; --.
 DR EMBL; AJ417076; CAD01139.1; --.
 DR EMBL; AP001754; BAA95563.1; --.
 DR Genew; HGNC:12339; TRPM2.
 DR MIM; 603749; --.
 DR GO; GO:0005887; C:integral to plasma membrane; TAS.
 DR GO; GO:0005262; F:calcium channel activity; TAS.
 DR GO; GO:0006816; P:calcium ion transport; TAS.
 DR InterPro; IPR002111; Cat_channel_TrpL.
 DR InterPro; IPR005821; Ion_trans.
 DR InterPro; IPR002153; Trans_receptor.
 DR Pfam; PF00520; ion_trans; 1.
 DR PRINTS; PR01097; TRNSRECEPTP.
 KW Ionic channel; Transmembrane; Ion transport; Calcium channel;
 KW Alternative splicing.
 FT DOMAIN 1 752 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 753 773 POTENTIAL.
 FT DOMAIN 774 795 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 796 816 POTENTIAL.
 FT DOMAIN 817 820 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 821 841 POTENTIAL.
 FT DOMAIN 842 896 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 897 917 POTENTIAL.
 FT DOMAIN 918 936 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 937 957 POTENTIAL.
 FT DOMAIN 958 1025 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 1026 1046 POTENTIAL.
 FT DOMAIN 1047 1503 CYTOPLASMIC (POTENTIAL).
 FT VARSPLIC 538 557 Missing (in isoform 2).
 FT VARSPLIC 1291 1325 DTLEPLSTIQYNVVDGLRDRRSFHGPYTVQAGLPL -> E
 FT (in isoform 2).
 FT /FTId=VSP_006575.
 FT CONFLICT 1088 1088 S -> N (IN REF. 2).
 FT CONFLICT 1189 1189 R -> Q (IN REF. 3).
 SQ SEQUENCE 1503 AA; 171225 MW; AD329AE79F1A71B5 CRC64;

Query Match 100.0%; Score 7950; DB 1; Length 1503;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1503; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNNDKQESLS 60
 |||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||
 Db 1 MEPSALRKAGSEQEEGFEGLPRRVTDLGMVSNLRRSNSSLFKSWRLQCPFGNNNDKQESLS 60

 Qy 61 SWIPENIKKKECVYFVESSKLSDAGKVVCQCGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120
 |||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||
 Db 61 SWIPENIKKKECVYFVESSKLSDAGKVVCQCGYTHEQHLEEATKPHTFQGTQWDPKKHVQ 120

 Qy 121 EMPTDAFGDIVFTGLSQKVKKYVRVSQDTPSSVIYHLMTQHWGLDVPNLLISVTGGAKNF 180
 |||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||
 Db 121 EMPTDAFGDIVFTGLSQKVKKYVRVSQDTPSSVIYHLMTQHWGLDVPNLLISVTGGAKNF 180

 Qy 181 NMKPRLKSIFRRLVKAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSYKEGELITIG 240
 |||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||
 Db 181 NMKPRLKSIFRRLVKAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSYKEGELITIG 240

 Qy 241 VATWGTVHRREGLIHPGTFGSPFAEYILDEDGQGNLTCLDSNHSHFILVDDGTHGQYGEIP 300
 |||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||||/|||
 Db 241 VATWGTVHRREGLIHPGTFGSPFAEYILDEDGQGNLTCLDSNHSHFILVDDGTHGQYGEIP 300

QY 301 LRTRLEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
|||
Db 301 LRTRLEKFISEQTKERGGVAIKIPIVCVLEGGPGTLHTIDNATTNGTPCVVVEGSGRVA 360
|||
QY 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKKIQDIVRRRQLLTFR 420
|||
Db 361 DVIAQVANLPVSDITISLIQQKLSVFFQEMFETFTESRIVEWTKKIQDIVRRRQLLTFR 420
|||
QY 421 EGKDGQQDQDVDAILQALLKASRSQDHFGHENWDHQQLKLAVALAQNVRDIARSEIFMDEWQWK 480
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Db 421 EGKDGQQDQDVDAILQALLKASRSQDHFGHENWDHQQLKLAVALAQNVRDIARSEIFMDEWQWK 480
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QY 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTDLTLYLYENLDPSCLFHSKLQKVL 540
|||
Db 481 PSDLHPTMTAALISNKPEFVKLFLENGVQLKEFVTDLTLYLYENLDPSCLFHSKLQKVL 540
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QY 541 VEDPERPACAPAAAPRLQMHVAVQLRELLGDFTQPLYPRPRHNDRLRLLLPVPHVKNVQ 600
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Db 541 VEDPERPACAPAAAPRLQMHVAVQLRELLGDFTQPLYPRPRHNDRLRLLLPVPHVKNVQ 600
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QY 601 GVSLRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAAALACSKILK 660
|||
Db 601 GVSLRSLYKRSSGHVTFTMDPIRDLIWAIVQNRRELAGIIWAQSQDCIAAALACSKILK 660
|||
Qy 661 ELSKEEEEDTSSEEMLALAAEYEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
|||
Db 661 ELSKEEEEDTSSEEMLALAAEYEYEHRAIGVFTECYRKDEERAQKLLTRVSEAWGKTTCLQL 720
|||
Qy 721 ALEAKDMKVFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCLMIAFPLLTGLISFREKRLQD 780
|||
Db 721 ALEAKDMKVFVSHGGIQAFLTKVWWGQLSVNDGLWRVTLCLMIAFPLLTGLISFREKRLQD 780
|||
Qy 781 VGTTPAARARAAFFTAPVVVFHNLNLSYFAFLCLFAYVLMVDFQPVPSCECAIYLWLFSLV 840
|||
Db 781 VGTTPAARARAAFFTAPVVVFHNLNLSYFAFLCLFAYVLMVDFQPVPSCECAIYLWLFSLV 840
|||
Qy 841 CEEMRQLFYDPDECGLMKKAALYFSDFWNKLDVGAIILFVAGLTCRLIPATLYPGRVILS 900
|||
Db 841 CEEMRQLFYDPDECGLMKKAALYFSDFWNKLDVGAIILFVAGLTCRLIPATLYPGRVILS 900
|||
Qy 901 LDFILFCRLMHIFTISKTLGPKIIIVKRMMDVFFFLFLLAIVWVVSFGVAKQAILIHNE 960
|||
Db 901 LDFILFCRLMHIFTISKTLGPKIIIVKRMMDVFFFLFLLAIVWVVSFGVAKQAILIHNE 960
|||
Qy 961 RRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF 1020
|||
Db 961 RRVDWLFRGAVYHSYLTIFGQIPGYIDGVNFNPEHCSPNGTDPYKPKCPESDATQQRPAF 1020
|||
Qy 1021 PEWLTVLLLCLYLLFTNILLNLIAFMNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA 1080
|||
Db 1021 PEWLTVLLLCLYLLFTNILLNLIAFMNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPA 1080
|||
Qy 1081 PPPFILLSHLQLFIKRVVLKTPAKRHQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
|||
Db 1081 PPPFILLSHLQLFIKRVVLKTPAKRHQLKNKLEKNEEAALLSWEIYLKENYLQRQFQQ 1140
|||
Qy 1141 KQRPEQKIEDISNKVDAMVDDLDPLKRSGSMEQR LASLEEQVAQTARALHWIVRTLRA 1200
|||
Db 1141 KQRPEQKIEDISNKVDAMVDDLDPLKRSGSMEQR LASLEEQVAQTARALHWIVRTLRA 1200
|||
Qy 1201 SGFSSEADVPTLASQKAAEEDPAEPGGRKKTTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
|||
Db 1201 SGFSSEADVPTLASQKAAEEDPAEPGGRKKTTEEPGDSYHVNARHLLYPNCPVTRFPVPNE 1260
|||
Qy 1261 KVPWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIQYNVVDGLRDRRSFHGPYTVQ 1320
|||
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Qy 1321 AGLPLNPMGRTGLRGSGSLSCFGPNHTLYPMVTRWRRNEDGAICRKSIKKMLEVLVVKLP 1380
|||

Db 1321 AGLPLNPMGRGLRGRGSLCFGPNHTLYPMVTRRRNEDGAICRKSIIKKMLEVLVVKLP 1380
 Qy 1381 LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI 1440
 |||||
 Db 1381 LSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDDPRNTDNAWI 1440
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 Qy 1441 ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVVDRIPLYANHKTLLQKAAAEGF 1500
 |||||
 Db 1441 ETVAVSVHFQDQNDVELNRLNSNLHACDSGASIRWQVVDRIPLYANHKTLLQKAAAEGF 1500
 |||||
 Qy 1501 AHY 1503
 |||||
 Db 1501 AHY 1503

SEQ ID NO: 2

SUMMARIES

Result No.	Query				Description
	Score	Match	Length	DB	
1	4512	100.0	4512	6	AX574359 Sequence
2	4512	100.0	6220	6	BD270147 Character
3	4512	100.0	6220	6	AR306288 Sequence
4	4512	100.0	6220	6	AX042216 Sequence
5	4512	100.0	6220	6	AX574360 Sequence
6	4512	100.0	6220	9	AB001535 Homo sapi
7	4163.2	92.3	5284	9	AJ417076 Homo sapi
8	3220	71.4	5980	10	AJ344343 Mus muscu
9	1600.8	35.5	1638	6	BD107877 36 human
10	1280.8	28.4	1314	6	BD107862 36 human
11	705.8	15.6	1670	9	AB017549 Homo sapi
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RESULT 4

AX042216

LOCUS AX042216 6220 bp DNA linear PAT 23-NOV-2000
 DEFINITION Sequence 5 from Patent WO0065056.
 ACCESSION AX042216
 VERSION AX042216.1 GI:11340930
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Scharenberg, A.M.
 TITLE Nucleic acids encoding a mutt domain-containing polypeptide
 JOURNAL Patent: WO 0065056-A 5 02-NOV-2000;
 Beth Israel Deaconess Medical Center, Inc. (US)
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ORIGIN

Query Match 100.0%; Score 4512; DB 6; Length 6220;
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Qy	841	CACTCTCACTTCATCCTCGTGGACGACGGGACCCACGGCCAGTACGGGTGGAGATTCT	900
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Db	1526	GACGTCAATTGCCAGGTGGCAACCTGCCCTGTCTCGGACATCACTATCTCCGTGATCCAG	1585
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Db	1646	GAGTGGACAAAAAGATCCAAGATATTGTCCGGAGGCCAGCTGCTGACTGTCTCCGG	1705
Qy	1261	GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGGCATCTTCAGGGCTGCTGAAAGCC	1320
Db	1706	GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGGCATCTTCAGGGCTGCTGAAAGCC	1765
Qy	1321	TCACGGAGCCAAGACCACTTGGCACAGAGAACTGGGACCCACAGCTGAAACTGGCAGTG	1380
Db	1766	TCACGGAGCCAAGACCACTTGGCACAGAGAACTGGGACCCACAGCTGAAACTGGCAGTG	1825
Qy	1381	GCATGGAATCGCGTGGACATTGCCGAGTGAGATCTCATGGATGAGTGGCAGTGGAG	1440
Db	1826	GCATGGAATCGCGTGGACATTGCCGAGTGAGATCTCATGGATGAGTGGCAGTGGAG	1885
Qy	1441	CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCAACAAAGCCTGAGTTGTG	1500
Db	1886	CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCAACAAAGCCTGAGTTGTG	1945
Qy	1501	AAGCTTCTGGAAAACGGGGTGCAGCTGAAGGAGTTGTCACTGGACACCTGCTC	1560
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Qy	1561	TACCTGTACGAGAACCTGGACCCCTCCTGCCCTGTCCACAGCAAGCTGCAAAAGGTGCTG	1620
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Db	2126	GTGGCCCAGGTCTGCGGGAGCTGCTGGGGACTTCACGCAGCCGTTATCCCCGGCCC	2185
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Qy	1981	GAACTGTCCAAGGAGGAGGAGCACGGACAGCTCGGAGGAGATGCTGGCGCTGGCGGAG	2040
Db	2426	GAACTGTCCAAGGAGGAGGAGCACGGACAGCTCGGAGGAGATGCTGGCGCTGGCGGAG	2485
Qy	2041	GAGTATGAGCACAGAGCATCGGGTCTTACCGAGTGCTACCGGAAGGACGAAGAGAGA	2100
Db	2486	GAGTATGAGCACAGAGCATCGGGTCTTACCGAGTGCTACCGGAAGGACGAAGAGAGA	2545
Qy	2101	GCCAGAAAATGCTCACCCCGTGTCCGAGGCTGGGGAAAGACCACTGCCCTGCAGCTC	2160
Db	2546	GCCAGAAAATGCTCACCCCGTGTCCGAGGCTGGGGAAAGACCACTGCCCTGCAGCTC	2605
Qy	2161	GCCCTGGAGGCCAAGGACATGAAGTTGTCTCACGGGGCATCCAGGCCCTCCTGACC	2220
Db	2606	GCCCTGGAGGCCAAGGACATGAAGTTGTCTCACGGGGCATCCAGGCCCTCCTGACC	2665
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Db	2656	AAGGTGTGGTGGGCCAGCTCTCGTGGACAATGGCTGTGGCGTGTGACCTGTGCATG	2725
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Db	2906	TTCCAGCCTGTGCCCTCCTGCGAGTGCGCATCTACCTCTGGCTTCTCCTGGTG	2965
Qy	2521	TGCGAGGAGATGCCAGCTCTCTATGACCCGTACGAGTGCGGGCTGATGAAGAAGGCA	2580
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RESULT 6

AB001535

LOCUS AB001535 6220 bp mRNA linear PRI 28-NOV-1998
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 VERSION AB001535.1 GI:3928755
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 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (sites)
 AUTHORS Nagamine,K., Kudoh,J., Minoshima,S., Kawasaki,K., Asakawa,S.,
 Ito,F. and Shimizu,N.
 TITLE Molecular cloning of a novel putative Ca²⁺ channel protein (TRPC7)
 highly expressed in brain
 JOURNAL Genomics 54 (1), 124-131 (1998)
 MEDLINE 99026133
 PUBMED 9806837
 REFERENCE 2 (bases 1 to 6220)
 AUTHORS Shimizu,N.

TITLE Direct Submission
JOURNAL Submitted (28-FEB-1997) Nobuyoshi Shimizu, Keio University School
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Shinjuku-ku, Tokyo 160, Japan (E-mail:shimizu@dmb.med.keio.ac.jp,
Tel:03-3351-2370, Fax:03-3351-2370)
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MKKAALYFSDFWNKLDVGAIILFVAGLTCLIPATLYPGRVILSDFIILFCLRLMHIF
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HSYLTIFGQIPGYIDGVNFNPHEHCPSPNGTDPYKPKCPSDATQQRPAFPPEWLTVLLLC
LYLLFTNILLNLIAFMNYTFQQVQEHTDQIWKFQRHDLIEEYHGRPAAPPPFILLS
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KIEDISNKVADAMVDDLDPLKRSGSMEQRQLASLEEQAQATARALHWIVRTLGRASGFS
SEADVPTLASQKAAEEDPAEPPGRKKTEEPGDSYHVNARHLLYPCNPVTRFPVNPNEKV
PWETEFLIYDPPFYTAERKDAAMDPMDTLEPLSTIYQNVVDGLRDRRSFHGPYTVQ
AGLPIINPMGRTGLRGRGSLSCFGPNHTLYPMVTRWRNRNEGAICRKSIIKMLEVLVVK
LPLSEHWALPGGSREPGEMLPRKLKRILRQEHWPSFENLLKCGMEVYKGYMDPRNTD
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ORIGIN

Query Match 100.0%; Score 4512; DB 9; Length 6220;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 4512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 ATGGAGCCCTCAGCCCTGAGGAAAGCTGGCTCGGAGCAGGAGGGCTTGAGGGGCTG 60
Db	446 ATGGAGCCCTCAGCCCTGAGGAAAGCTGGCTCGGAGCAGGAGGGCTTGAGGGGCTG 505
Qy	61 CCCAGAAGGGTCACTGACCTGGGATGGTCTCCAATCTCCGGCGCAGCAACAGCAGCCTC 120
Db	506 CCCAGAAGGGTCACTGACCTGGGATGGTCTCCAATCTCCGGCGCAGCAACAGCAGCCTC 565
Qy	121 TTCAAGAGCTGGAGGCTACAGTGCCCCCTCGGCAACAATGACAAGCAAGAAAGCCTCAGT 180

Db	566	TTCAAGAGCTGGAGGCTACAGTGCCCCCTCGGAAACAATGACAAGCAAGAAAGCCTCAGT	625
Qy	181	TCGTGGATTCTGAAAACATCAAGAAGAAAAGAATGCGTGTATTTGTGGAAACTTCCAAA	240
Db	626	TCGTGGATTCTGAAAACATCAAGAAGAAAAGAATGCGTGTATTTGTGGAAAGTTCCAAA	685
Qy	241	CTGTCTGATGCTGGGAAGGTGGTGTGTCAGTGTGGCTACACGCATGAGCAGCACTGGAG	300
Db	686	CTGTCTGATGCTGGGAAGGTGGTGTGTCAGTGTGGCTACACGCATGAGCAGCACTGGAG	745
Qy	301	GAGGCTACCAAGCCCCACACCTTCCAGGGCACACAGTGGGACCCAAAGAAACATGTCCAG	360
Db	746	GAGGCTACCAAGCCCCACACCTTCCAGGGCACACAGTGGGACCCAAAGAAACATGTCCAG	805
Qy	361	GAGATGCCAACCGATGCCTTGGCGACATCGTCTTCACGGGCTGAGCCAGAAGGTGAAA	420
Db	806	GAGATGCCAACCGATGCCTTGGCGACATCGTCTTCACGGGCTGAGCCAGAAGGTGAAA	865
Qy	421	AAGTACGTCCGAGTCTCCAGGACACGCCCTCCAGCGTGATCTACCAACCTCATGACCCAG	480
Db	866	AAGTACGTCCGAGTCTCCAGGACACGCCCTCCAGCGTGATCTACCAACCTCATGACCCAG	925
Qy	481	CACTGGGGCTGGACGTCCCCAATCTCTGATCTCGGTGACCGGGGGCCAAGAACTTC	540
Db	926	CACTGGGGCTGGACGTCCCCAATCTCTGATCTCGGTGACCGGGGGCCAAGAACTTC	985
Qy	541	AACATGAAGCCCGGGCTGAAGAGCATTTCAGCAGAGGCTGGTCAAGGTGGCTCAGACC	600
Db	986	AACATGAAGCCCGGGCTGAAGAGCATTTCAGCAGAGGCTGGTCAAGGTGGCTCAGACC	1045
Qy	601	ACAGGGGCCTGGATCATCACAGGGGGTCCCACACCGCGTCATGAAGCAGGTAGGCAG	660
Db	1046	ACAGGGGCCTGGATCATCACAGGGGGTCCCACACCGCGTCATGAAGCAGGTAGGCAG	1105
Qy	661	GCGGTGCGGGACTTCAGCCTGAGCAGCAGCTACAAGGAAGGGCAGCTCATCACCATCGGA	720
Db	1106	GCGGTGCGGGACTTCAGCCTGAGCAGCAGCTACAAGGAAGGGCAGCTCATCACCATCGGA	1165
Qy	721	GTCGCCACCTGGGGCACTGTCACCAGCCCCGAGGGCTGATCCATCCCACGGCAGCTTC	780
Db	1166	GTCGCCACCTGGGGCACTGTCACCAGCCCCGAGGGCTGATCCATCCCACGGCAGCTTC	1225
Qy	781	CCCGCCGAGTACATACTGGATGAGGATGGCAAGGGAACCTGACCTGCCTAGACAGCAAC	840
Db	1226	CCCGCCGAGTACATACTGGATGAGGATGGCAAGGGAACCTGACCTGCCTAGACAGCAAC	1285
Qy	841	CACTCTCACTTCATCCTCGTGGACGACGGGACCCACGCCAGTACGGGTGGAGATTCT	900
Db	1286	CACTCTCACTTCATCCTCGTGGACGACGGGACCCACGCCAGTACGGGTGGAGATTCT	1345
Qy	901	CTGAGGACCAGGCTGGAGAAGTTCATATCGGAGCAGACCAAGGAAAGAGGAGGTGTGCC	960
Db	1346	CTGAGGACCAGGCTGGAGAAGTTCATATCGGAGCAGACCAAGGAAAGAGGAGGTGTGCC	1405
Qy	961	ATCAAGATCCCCATCGTGTGGCTGGAGGGCGGCCGGCACGGTGCACACCATC	1020
Db	1406	ATCAAGATCCCCATCGTGTGGCTGGAGGGCGGCCGGCACGGTGCACACCATC	1465
Qy	1021	GACAACGCCACCAACGGCACCCCTGTGTGGTTGGAGGGCTGGGCCCGTGGCC	1080
Db	1466	GACAACGCCACCAACGGCACCCCTGTGTGGTTGGAGGGCTGGGCCCGTGGCC	1525
Qy	1081	GACGTCAATTGCCACGGTGGCAACCTGCCGTGTCGGACATCACTATCTCCCTGATCCAG	1140
Db	1526	GACGTCAATTGCCACGGTGGCAACCTGCCGTGTCGGACATCACTATCTCCCTGATCCAG	1585
Qy	1141	CAGAAACTGACGGTGTCTCCAGGAGATTTGAGACCTCACGGAAAGCAGGATTGTC	1200
Db	1586	CAGAAACTGACGGTGTCTCCAGGAGATTTGAGACCTCACGGAAAGCAGGATTGTC	1645
Qy	1201	GAGTGGACCAAAAGATCCAAGATATTGTCGGAGGGCGCAGCTGCTGACTGTCTCCGG	1260

Db	1646	GAAGTGGACCAAAAAGATCCAAGATATTGTCGGAGGCCGAGCTGCTGACTGTCCTCCGG	1705
Qy	1261	GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGCCATCTGCAGGCCTGCTGAAAGCC	1320
Db	1706	GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGCCATCTGCAGGCCTGCTGAAAGCC	1765
Qy	1321	TCACGGAGCCAAGACCACCTTGGCCACGGAGAACTGGGACCCAGCTGAAACTGGCAGTG	1380
Db	1766	TCACGGAGCCAAGACCACCTTGGCCACGGAGAACTGGGACCCAGCTGAAACTGGCAGTG	1825
Qy	1381	GCATGGAATCGCGTGGACATTGCCCGAGTGAGATCTCATGGATGAGTGGCAGTGGAAAG	1440
Db	1826	GCATGGAATCGCGTGGACATTGCCCGAGTGAGATCTCATGGATGAGTGGCAGTGGAAAG	1885
Qy	1441	CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCCAAACAAGCCTGAGTTGTG	1500
Db	1886	CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCCAAACAAGCCTGAGTTGTG	1945
Qy	1501	AAGCTCTCTGGAAAACGGGGTGCAGCTGAAGGAGTTGTACCTGGGACACCTTGCTC	1560
Db	1946	AAGCTCTCTGGAAAACGGGGTGCAGCTGAAGGAGTTGTACCTGGGACACCTTGCTC	2005
Qy	1561	TACCTGTACGAGAACCTGGACCCCTCCCTGCCTGTTCCACAGCAAGCTGCAAAGGTGCTG	1620
Db	2006	TACCTGTACGAGAACCTGGACCCCTCCCTGCCTGTTCCACAGCAAGCTGCAAAGGTGCTG	2065
Qy	1621	GTGGAGGATCCCGAGCGCCCGCTTGCAGCCCGCCCTGAGATGCACAC	1680
Db	2066	GTGGAGGATCCCGAGCGCCCGCTTGCAGCCCGCCCTGAGATGCACAC	2125
Qy	1681	GTGGCCCAGGTGCTGCAGGAGCTGCTGGGGACTTCACGCAGCCGCTTTATCCCCGGCC	1740
Db	2126	GTGGCCCAGGTGCTGCAGGAGCTGCTGGGGACTTCACGCAGCCGCTTTATCCCCGGCC	2185
Qy	1741	CGGCACAAACGACCGCTGCAGCTCTGCCTGCTGCCGTTCCCCACGTCAAGCTAACGTGCAG	1800
Db	2186	CGGCACAAACGACCGCTGCAGCTCTGCCTGCCGTTCCCCACGTCAAGCTAACGTGCAG	2245
Qy	1801	GGAGTGAGCCTCCGGTCCCTACAAGCTTCTCAGGCCATGTGACCTTCACCATGGAC	1860
Db	2246	GGAGTGAGCCTCCGGTCCCTACAAGCTTCTCAGGCCATGTGACCTTCACCATGGAC	2305
Qy	1861	CCCATCCGTGACCTTCTCATTGGCCATTGTCAGAACGTCGGAGCTGGCAGGAATC	1920
Db	2306	CCCATCCGTGACCTTCTCATTGGCCATTGTCAGAACGTCGGAGCTGGCAGGAATC	2365
Qy	1921	ATCTGGCTCAGAGCAGGACTGCATCGCAGCGGCCCTGGCCTGCAGCAAGATCTGAAG	1980
Db	2366	ATCTGGCTCAGAGCAGGACTGCATCGCAGCGGCCCTGGCCTGCAGCAAGATCTGAAG	2425
Qy	1981	GAAGTGTCCAAGGAGGAGGAGGACACGGACAGCTCGGAGGAGATGCTGGCCTGGCGAG	2040
Db	2426	GAAGTGTCCAAGGAGGAGGAGGACACGGACAGCTCGGAGGAGATGCTGGCCTGGCGAG	2485
Qy	2041	GAGTATGAGCACAGGCCATCGGGCTTCACCGAGTGCACCGAAGGAGCAAGAGAGA	2100
Db	2486	GAGTATGAGCACAGGCCATCGGGCTTCACCGAGTGCACCGAAGGAGCAAGAGAGA	2545
Qy	2101	GCCCCAGAAACTGCTACCCCGCTGTCCAGGCCCTGGGGAAAGACCACCTGCCTGCAGCTC	2160
Db	2546	GCCCCAGAAACTGCTACCCCGCTGTCCAGGCCCTGGGGAAAGACCACCTGCCTGCAGCTC	2605
Qy	2161	GCCCTGGAGGCCAAGGACATGAAGTTGTCTCACGGGGCATCCAGGCCCTCTGACCC	2220
Db	2606	GCCCTGGAGGCCAAGGACATGAAGTTGTCTCACGGGGCATCCAGGCCCTCTGACCC	2665
Qy	2221	AAGGTGTGGTGGGGCCAGCTCCGTGGACAATGGGCTGTGGCTGTGACCCGTGCATG	2280
Db	2666	AAGGTGTGGTGGGGCCAGCTCCGTGGACAATGGGCTGTGGCTGTGACCCGTGCATG	2725

Qy	2281	CTGGCCTTCCCGCTGCTCCTCACCGCCTCATCTCCTTCAGGGAGAAGAGGCTGCAGGAT	2340
Db	2726	CTGGCCTTCCCGCTGCTCCTCACCGCCTCATCTCCTTCAGGGAGAAGAGGCTGCAGGAT	2785
Qy	2341	GTGGGCACCCCGCGGCCCGGCCGTGCCCTCTTCACCGCACCCGTGGTGGCTTCAC	2400
Db	2786	GTGGGCACCCCGCGGCCCGGCCGTGCCCTCTTCACCGCACCCGTGGTGGCTTCAC	2845
Qy	2401	CTGAACATCCTCTCCTACTTCGCCTTCCTCTGCCTGTTGCCTACGTGCTCATGGTGGAC	2460
Db	2846	CTGAACATCCTCTCCTACTTCGCCTTCCTCTGCCTGTTGCCTACGTGCTCATGGTGGAC	2905
Qy	2461	TTCCAGCCTGTGCCCTCCTGGTGCAGGTGCCCCATCTACCTCTGGCTCTTCCTGGTG	2520
Db	2906	TTCCAGCCTGTGCCCTCCTGGTGCAGGTGCCCCATCTACCTCTGGCTCTTCCTGGTG	2965
Qy	2521	TGCGAGGAGATCGGGCAGCTTCTATGACCCCTGACGAGTGCAGGCTGATGAAGAAGGCA	2580
Db	2966	TGCGAGGAGATCGGGCAGCTTCTATGACCCCTGACGAGTGCAGGCTGATGAAGAAGGCA	3025
Qy	2581	GCCTTGTACTTCAGTGAATTCTGGAAATAAGCTGGACGTGGCGCAATCTTGCTCTCGTG	2640
Db	3026	GCCTTGTACTTCAGTGAATTCTGGAAATAAGCTGGACGTGGCGCAATCTTGCTCTCGTG	3085
Qy	2641	GCAGGGCTGACCTGCAGGCTCATCCGGCGACGCTGTACCCGGGCGGTACATCCTCTCT	2700
Db	3086	GCAGGGCTGACCTGCAGGCTCATCCGGCGACGCTGTACCCGGGCGGTACATCCTCTCT	3145
Qy	2701	CTGGACTTCATCCTGTTCTGCCTCCGGCTCATGCACATTTCACCATCAGTAAGACGCTG	2760
Db	3146	CTGGACTTCATCCTGTTCTGCCTCCGGCTCATGCACATTTCACCATCAGTAAGACGCTG	3205
Qy	2761	GGGCCAAGATCATCATTGTGAAGCGGATGATGAAGGACGTCTCTTCTCTCCCTCCTG	2820
Db	3206	GGGCCAAGATCATCATTGTGAAGCGGATGATGAAGGACGTCTCTTCTCTCCCTCCTG	3265
Qy	2821	CTGGCTGTGGGTGGTGTCTTCGGGGTGGCCAAGCAGGCCATCCTCATCCACAAACGAG	2880
Db	3266	CTGGCTGTGGGTGGTGTCTTCGGGGTGGCCAAGCAGGCCATCCTCATCCACAAACGAG	3325
Qy	2881	CGCCGGGTGGACTGGCTGTCTTCGAGGGGGCGTCTACCACTCCTACCTCACCATCTCGG	2940
Db	3326	CGCCGGGTGGACTGGCTGTCTTCGAGGGGGCGTCTACCACTCCTACCTCACCATCTCGG	3385
Qy	2941	CAGATCCCGGGCTACATCGACGGTGTGAACCTCAACCCGGAGCACTGCAGCCCCAATGGC	3000
Db	3386	CAGATCCCGGGCTACATCGACGGTGTGAACCTCAACCCGGAGCACTGCAGCCCCAATGGC	3445
Qy	3001	ACCGACCCCTACAAGCTAAAGTGCCTCGAGAGCGACGCCAGCAGCAGAGGCCGGCTTC	3060
Db	3446	ACCGACCCCTACAAGCTAAAGTGCCTCGAGAGCGACGCCAGCAGCAGAGGCCGGCTTC	3505
Qy	3061	CCTGAGTGGCTGACGGTCTCTCTACTCTGCCTCTACCTGCTCTTCACCAACATCCTGCTG	3120
Db	3506	CCTGAGTGGCTGACGGTCTCTCTACTCTGCCTCTACCTGCTCTTCACCAACATCCTGCTG	3565
Qy	3121	CTCAACCTCCTCATGCCATGTTCAACTACACCTTCCAGCAGGTGCGAGGAGCACACGGAC	3180
Db	3566	CTCAACCTCCTCATGCCATGTTCAACTACACCTTCCAGCAGGTGCGAGGAGCACACGGAC	3625
Qy	3181	CAGATTGGAAGTTCCAGGCCATGACCTGATCGAGGAGTACCAAGGGCGCCCGCCGCG	3240
Db	3626	CAGATTGGAAGTTCCAGGCCATGACCTGATCGAGGAGTACCAAGGGCGCCCGCCGCG	3685
Qy	3241	CCGCCCCCTTCATCCTCCTAGCCACCTGCGACTCTTCATCAAGAGGGTGGCTGAAG	3300
Db	3686	CCGCCCCCTTCATCCTCCTAGCCACCTGCGACTCTTCATCAAGAGGGTGGCTGAAG	3745
Qy	3301	ACTCCGGCCAAGAGGCACAAGCAGCTCAAGAACAAAGCTGGAGAAGAACGAGGAGGCC	3360
Db	3746	ACTCCGGCCAAGAGGCACAAGCAGCTCAAGAACAAAGCTGGAGAAGAACGAGGAGGCC	3805

Qy	3361	CTGCTATCTGGGAGATCTACCTGAAGGAGAACTACCTCCAGAACCGACAGTCCAGCAA	3420
Db	3806	CTGCTATCTGGGAGATCTACCTGAAGGAGAACTACCTCCAGAACCGACAGTCCAGCAA	3865
Qy	3421	AAGCAGCGCCCGAGCAGAAGATCGAGGACATCAGCAATAAGGTTGACGCCATGGTGGAC	3480
Db	3866	AAGCAGCGCCCGAGCAGAAGATCGAGGACATCAGCAATAAGGTTGACGCCATGGTGGAC	3925
Qy	3481	CTGCTGGACCTGGACCCACTGAAGAGGTCGGCTCCATGGAGCAGAGGTTGGCCTCCCTG	3540
Db	3926	CTGCTGGACCTGGACCCACTGAAGAGGTCGGCTCCATGGAGCAGAGGTTGGCCTCCCTG	3985
Qy	3541	GAGGAGCAGGTGGCCAGACAGCCCGAGCCCTGCACTGGATCGTGAGGACGCTGCGGCC	3600
Db	3986	GAGGAGCAGGTGGCCAGACAGCCCGAGCCCTGCACTGGATCGTGAGGACGCTGCGGCC	4045
Qy	3601	AGCGCTTCAGCTCGGAGGGCGACGTCCCCACTCTGGCCTCCCAGAAGGCCGCGAGGAG	3660
Db	4046	AGCGCTTCAGCTCGGAGGGCGACGTCCCCACTCTGGCCTCCCAGAAGGCCGCGAGGAG	4105
Qy	3661	CCGGATGCTGAGCCGGAGGCAGGAAGAACGGAGGAGCCGGCACAGCTACACGTG	3720
Db	4106	CCGGATGCTGAGCCGGAGGCAGGAAGAACGGAGGAGCCGGCACAGCTACACGTG	4165
Qy	3721	AATGCCCGCACCTCCTTACCCCCACTGCCCTGTACCGCGTTCCCCGTGCCAACGAG	3780
Db	4166	AATGCCCGCACCTCCTTACCCCCACTGCCCTGTACCGCGTTCCCCGTGCCAACGAG	4225
Qy	3781	AAGGTGCCCTGGAGACGGAGTCTGATCTATGACCCACCTTTACACGGCAGAGAGG	3840
Db	4226	AAGGTGCCCTGGAGACGGAGTCTGATCTATGACCCACCTTTACACGGCAGAGAGG	4285
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Qy	3901	TACAACGTGGATGGCTGAGGGACCCGGAGCTCCACGGCCGTACACAGTGCAG	3960
Db	4346	TACAACGTGGATGGCTGAGGGACCCGGAGCTCCACGGCCGTACACAGTGCAG	4405
Qy	3961	GCCGGGTGCCCTGAACCCATGGCCGCACAGGACTGCGTGGCGCGGGAGCCTCAGC	4020
Db	4406	GCCGGGTGCCCTGAACCCATGGCCGCACAGGACTGCGTGGCGCGGGAGCCTCAGC	4465
Qy	4021	TGCTTCGGACCCAACCACACGCTGTACCCATGGTCACCGCGTGGAGGCGAACGAGGAT	4080
Db	4466	TGCTTCGGACCCAACCACACGCTGTACCCATGGTCACCGCGTGGAGGCGAACGAGGAT	4525
Qy	4081	GGAGCCATCTGCAGGAAGAGCATAAAGAAGATGCTGGAAGTGTGGTGTGAAGCTCCCT	4140
Db	4526	GGAGCCATCTGCAGGAAGAGCATAAAGAAGATGCTGGAAGTGTGGTGTGAAGCTCCCT	4585
Qy	4141	CTCTCCGAGCACTGGCCCTGCCTGGGGCTCCCGGGAGCCAGGGGAGATGCTACCTCGG	4200
Db	4586	CTCTCCGAGCACTGGCCCTGCCTGGGGCTCCCGGGAGCCAGGGGAGATGCTACCTCGG	4645
Qy	4201	AAGCTGAAGCGATCTCCGCAGGAGCACTGGCGTCTTTGAAACTTGCTGAAGTGC	4260
Db	4646	AAGCTGAAGCGATCTCCGCAGGAGCACTGGCGTCTTTGAAACTTGCTGAAGTGC	4705
Qy	4261	GGCATGGAGGTGACAAAGGCTACATGGATGACCCGAGGAACACGGACAATGCCTGGATC	4320
Db	4706	GGCATGGAGGTGACAAAGGCTACATGGATGACCCGAGGAACACGGACAATGCCTGGATC	4765
Qy	4321	GAGACGGTGGCGTCAGCGTCCACTTCCACGGACCAGAAATGACGTGGAGCTGAACAGGCTG	4380
Db	4766	GAGACGGTGGCGTCAGCGTCCACTTCCACGGACCAGAAATGACGTGGAGCTGAACAGGCTG	4825
Qy	4381	AACTCTAACCTGCACGCCCTGCGACTCGGGGCTCCATCCGATGGCAGGTGGACAGG	4440

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Db      4826 AACTCTAACCTGCACGCCCTGCGACTCGGGGGCCTCCATCCGATGGCAGGTGGTGGACAGG 4885
QY      4441 CGCATCCCCTCTATGCGAACCAAGAACCCCTCCAGAAGGCAGCCGCTGAGTCGGG 4500
Db      4886 CGCATCCCCTCTATGCGAACCAAGAACCCCTCCAGAAGGCAGCCGCTGAGTCGGG 4945
Qy      4501 GCTCACTACTGA 4512
Db      4946 GCTCACTACTGA 4957

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SUMMARIES

Result	Query					Description
No.	Score	Match	Length	DB	ID	
1	4512	100.0	6220	4	US-09-600-087-1	Sequence 1, Appli
2	611.6	13.6	3639	4	US-09-636-215-779	Sequence 779, App
3	611.6	13.6	3639	4	US-09-685-166A-779	Sequence 779, App
4	607.2	13.5	5668	3	US-09-112-096-14	Sequence 14, Appl
5	607.2	13.5	5668	4	US-09-636-215-777	Sequence 777, App
6	607.2	13.5	5668	4	US-09-685-166A-777	Sequence 777, App
7	379.8	8.4	3848	3	US-09-112-096-28	Sequence 28, Appl
8	306	6.8	1959	4	US-09-636-215-817	Sequence 817, App
9	306	6.8	1959	4	US-09-685-166A-817	Sequence 817, App
10	302.8	6.7	1690	3	US-09-112-096-27	Sequence 27, Appl
11	250.2	5.5	1512	4	US-09-461-325-54	Sequence 54, Appl
12	250.2	5.5	1512	4	US-10-012-542-54	Sequence 54, Appl
13	244.8	5.4	1524	3	US-09-020-956-109	Sequence 109, App
14	244.8	5.4	1524	3	US-09-030-607-109	Sequence 109, App
15	244.8	5.4	1524	4	US-09-439-313-109	Sequence 109, App
16	244.8	5.4	1524	4	US-09-352-616A-109	Sequence 109, App

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RESULT 1
US-09-600-087-1
; Sequence 1, Application US/09600087
; Patent No. 6548272
; GENERAL INFORMATION:
; APPLICANT: Shimizu, No. 6548272uyoshi
; APPLICANT: Nagamine, Kentaro
; TITLE OF INVENTION: GENE CODING FOR A NOVEL TRANSMEMBRANE PROTEIN
; FILE REFERENCE: 11283-004001
; CURRENT APPLICATION NUMBER: US/09/600,087
; CURRENT FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: PCT/JP99/06289
; PRIOR FILING DATE: 1999-11-11
; PRIOR APPLICATION NUMBER: JP/321200/1998
; PRIOR FILING DATE: 1998-11-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 6220
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (446)...(4954)
; NAME/KEY: polyA_signal
; LOCATION: (5812)...(5817)
US-09-600-087-1

Query Match          100.0%;  Score 4512;  DB 4;  Length 6220;
Best Local Similarity 100.0%;  Pred. No. 0;
Matches 4512;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

QY      1 ATGGAGCCCTCAGCCCTGAGGAAAGCTGGCTCGGAGCAGGAGGAGGGCTTGAGGGCTG 60
Db      446 ATGGAGCCCTCAGCCCTGAGGAAAGCTGGCTCGGAGCAGGAGGAGGGCTTGAGGGCTG 505

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Qy	121	TTCAAGAGCTGGAGGCTACAGTGCCCTCGGCAACAATGACAAGCAAGAAAGCCTCAGT	180
Db	566	TTCAAGAGCTGGAGGCTACAGTGCCCTCGGCAACAATGACAAGCAAGAAAGCCTCAGT	625
Qy	181	TCGTGGATTCTGAAAACATCAAGAAGAAAGAATGCGTGTATTTGTGAAAGTCCAAA	240
Db	626	TCGTGGATTCTGAAAACATCAAGAAGAAAGAATGCGTGTATTTGTGAAAGTCCAAA	685
Qy	241	CTGTCTGATGCTGGAAAGGTGGTGTGTCAGTGTGGCTACACGCATAGCAGCAGCACTGGAG	300
Db	686	CTGTCTGATGCTGGAAAGGTGGTGTGTCAGTGTGGCTACACGCATAGCAGCAGCACTGGAG	745
Qy	301	GAGGCTACCAAGCCCCACACCTTCCAGGGCACACAGTGGGACCCAAAGAAACATGTCCAG	360
Db	746	GAGGCTACCAAGCCCCACACCTTCCAGGGCACACAGTGGGACCCAAAGAAACATGTCCAG	805
Qy	361	GAGATGCCAACCGATGCCCTTGGCAGATCGTCTCACGGGCTGAGCCAGAAGGTGAAA	420
Db	806	GAGATGCCAACCGATGCCCTTGGCAGATCGTCTCACGGGCTGAGCCAGAAGGTGAAA	865
Qy	421	AAGTACGTCCAGTCTCCCAGGACACGCCCTCAGCGTGTATCTACACACCTCATGACCCAG	480
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Qy	481	CACTGGGGCTGGACGTCCCCAATCTTGTATCTCGGTGACCGGGGGGCCAAGAACCTTC	540
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Qy	601	ACAGGGGCTGGATCATCACAGGGGGTCCCACACCGCGTCATGAAGCAGGTAGGCGAG	660
Db	1046	ACAGGGGCTGGATCATCACAGGGGGTCCCACACCGCGTCATGAAGCAGGTAGGCGAG	1105
Qy	661	GCGGTGCGGGACTTCAGCCTGAGCAGCACCTACAAGGAAGGGCAGGCTCATCACCATCGGA	720
Db	1106	GCGGTGCGGGACTTCAGCCTGAGCAGCACCTACAAGGAAGGGCAGGCTCATCACCATCGGA	1165
Qy	721	GTCGCCACCTGGGCACTGTCACCGCCCGAGGGCTGATCCATCCCACGGCAGCTTC	780
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Qy	781	CCCGCGAGTACATACTGGATGAGGATGGCCAAGGGAACTGACCTGCTTAGACAGCAAC	840
Db	1226	CCCGCGAGTACATACTGGATGAGGATGGCCAAGGGAACTGACCTGCTTAGACAGCAAC	1285
Qy	841	CACTCTCACTTCATCCTCGTGGACCGGACCCACGGCCAGTACGGGTGGAGATTCC	900
Db	1286	CACTCTCACTTCATCCTCGTGGACCGGACCCACGGCCAGTACGGGTGGAGATTCC	1345
Qy	901	CTGAGGACCAGGCTGGAGAAGTTCATATCGGAGCAGACCAAGGAAGAGGAGGTGTGGCC	960
Db	1346	CTGAGGACCAGGCTGGAGAAGTTCATATCGGAGCAGACCAAGGAAGAGGAGGTGTGGCC	1405
Qy	961	ATCAAGATCCCCATCGTGTGGCTGGAGGGCGCCCGGGCACGGTGCACACCATC	1020
Db	1406	ATCAAGATCCCCATCGTGTGGCTGGAGGGCGCCCGGGCACGGTGCACACCATC	1465
Qy	1021	GACAACGCCACCAACGGCACCCCTGTTGTTGGAGGGCTGGCCCGCGTGGCC	1080
Db	1466	GACAACGCCACCAACGGCACCCCTGTTGTTGGAGGGCTGGCCCGCGTGGCC	1525
Qy	1081	GACGTATTGCCAGGTGGCAACCTGCCCTGTCGGACATCACTATCTCCCTGATCCAG	1140
Db	1526	GACGTATTGCCAGGTGGCAACCTGCCCTGTCGGACATCACTATCTCCCTGATCCAG	1585

Qy 1141 CAGAAACTGAGCGTGTCTTCCAGGAGATGTTGAGACCTTCACGGAAACCGAGATTGTC 1200
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 Db 1586 CAGAAACTGAGCGTGTCTTCCAGGAGATGTTGAGACCTTCACGGAAACCGAGATTGTC 1645
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 Qy 1201 GAGTGGACCAAAAGATCCAAGATATTGTCCGGAGGGCGCAGCTGCTGACTGTCTCCGG 1260
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 Db 1646 GAGTGGACCAAAAGATCCAAGATATTGTCCGGAGGGCGCAGCTGCTGACTGTCTCCGG 1705
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 Qy 1261 GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGCCATCTGCAGGCCTGCTGAAAGCC 1320
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 Db 1706 GAAGGCAAGGATGGTCAGCAGGACGTGGATGTGCCATCTGCAGGCCTGCTGAAAGCC 1765
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 Qy 1321 TCACGGAGCCAAGACCACTTGGCCACGAGAACCTGGGACCACCGAGCTGAAACTGGCAGTG 1380
 |||||
 Db 1766 TCACGGAGCCAAGACCACTTGGCCACGAGAACCTGGGACCACCGAGCTGAAACTGGCAGTG 1825
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 Qy 1381 GCATGGAATCGCGTGGACATTGCCCGCAGTGAGATCTCATGGATGAGTGGCAGTGGAAAG 1440
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 Db 1826 GCATGGAATCGCGTGGACATTGCCCGCAGTGAGATCTCATGGATGAGTGGCAGTGGAAAG 1885
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 Qy 1441 CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCCAAACAGCCTGAGTTGTG 1500
 |||||
 Db 1886 CCTTCAGATCTGCACCCACGATGACAGCTGCACTCATCTCCAAACAGCCTGAGTTGTG 1945
 |||||
 Qy 1501 AAGCTCTCCTGGAAAACGGGGTCAGCTGAAGGAGTTGTACCTGGACACCTTGCTC 1560
 |||||
 Db 1946 AAGCTCTCCTGGAAAACGGGGTCAGCTGAAGGAGTTGTACCTGGACACCTTGCTC 2005
 |||||
 Qy 1561 TACCTGTACGAGAACCTGGACCCCTCTGCCTGTTCCACAGCAAGCTGCAAAGGTGCTG 1620
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 Db 2006 TACCTGTACGAGAACCTGGACCCCTCTGCCTGTTCCACAGCAAGCTGCAAAGGTGCTG 2065
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 Qy 1621 GTGGAGGATCCCGAGCGCCCGCTTGCGCGCCCGCGCCCTGCGAGATGCACCAAC 1680
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 Db 2066 GTGGAGGATCCCGAGCGCCCGCTTGCGCGCCCGCGCCCTGCGAGATGCACCAAC 2125
 |||||
 Qy 1631 GTGGCCCAGGTGCTGCGGGAGCTGCTGGGGACTTCACGCAGCCGCTTATCCCCGGCCC 1740
 |||||
 Db 2126 GTGGCCCAGGTGCTGCGGGAGCTGCTGGGGACTTCACGCAGCCGCTTATCCCCGGCCC 2185
 |||||
 Qy 1741 CGGCACAACGACCGGCTCGGGCTCCCTGCTGCCGTTCCCCACGTCAAGCTAACGTGCAG 1800
 |||||
 Db 2186 CGGCACAACGACCGGCTCGGGCTCCCTGCTGCCGTTCCCCACGTCAAGCTAACGTGCAG 2245
 |||||
 Qy 1801 GGAGTGAGCCTCGGTCCCTCTACAAGCGTTCTCAGGCCATGTGACCTTCACCATGGAC 1860
 |||||
 Db 2246 GGAGTGAGCCTCGGTCCCTCTACAAGCGTTCTCAGGCCATGTGACCTTCACCATGGAC 2305
 |||||
 Qy 1861 CCCATCCGTGACCTTCTCATTGGGCCATTGTCCAGAACCGTCGGGAGCTGGCAGGAATC 1920
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 Db 2306 CCCATCCGTGACCTTCTCATTGGGCCATTGTCCAGAACCGTCGGGAGCTGGCAGGAATC 2365
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 Qy 1921 ATCTGGGCTCAGAGCCAGGACTGCATCGCAGCGGCTTGGCTGCAGCAAGATCTGAAG 1980
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 Db 2366 ATCTGGGCTCAGAGCCAGGACTGCATCGCAGCGGCTTGGCTGCAGCAAGATCTGAAG 2425
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 Qy 1981 GAACTGTCCAAGGAGGAGGAGGACACGGACAGCTCGGAGGAGATGCTGGCGCTGGGGAG 2040
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 Db 2426 GAACTGTCCAAGGAGGAGGAGGACACGGACAGCTCGGAGGAGATGCTGGCGCTGGGGAG 2485
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 Qy 2041 GAGTATGAGCACAGAGCCATGGGTCTTCACCGAGTGTACCGGAAGGACGAAGAGAGA 2100
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 Db 2486 GAGTATGAGCACAGAGCCATGGGTCTTCACCGAGTGTACCGGAAGGACGAAGAGAGA 2545
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 Qy 2101 GCCCAGAAACTGCTCACCCCGTGTCCAGGGCTGGGGAAGACCACCTGCCTGCAGCTC 2160
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 Db 2546 GCCCAGAAACTGCTCACCCCGTGTCCAGGGCTGGGGAAGACCACCTGCCTGCAGCTC 2605
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 Qy 2161 GCCCTGGAGGCCAAGGACATGAAGTTGTGCTCACGGGGCATCCAGGCCTTCTGACC 2220
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Db	2606	GCCCTGGAGGCCAAGGACATGAAGTTGTGTCACGGGGCATCCAGGCCCTGACC 2665
Qy	2221	AAGGTGTGGGGGCCAGCTCTCCGTGACAATGGGCTGTGGCGTGTGACCCGTGAC 2280
Db	2666	AAGGTGTGGGGGCCAGCTCTCCGTGACAATGGGCTGTGGCGTGTGACCCGTGAC 2725
Qy	2281	CTGGCCTCCCGCTCCTCACCGGCCATCTCCTCAGGGAGAAGAGGCTGCAGGAT 2340
Db	2726	CTGGCCTCCCGCTCCTCACCGGCCATCTCCTCAGGGAGAAGAGGCTGCAGGAT 2785
Qy	2341	GTGGGCACCCCGCGGCCCGGCCGTGCCCTCTCACCGCACCCGTGGTGGTCTTCAC 2400
Db	2786	GTGGGCACCCCGCGGCCCGGCCGTGCCCTCTCACCGCACCCGTGGTGGTCTTCAC 2845
Qy	2401	CTGAACATCCTCTCCTACTTCGCCCTCCCTGCGCTACCGCTCATGGTGGAC 2460
Db	2846	CTGAACATCCTCTCCTACTTCGCCCTCCCTGCGCTACCGCTCATGGTGGAC 2905
Qy	2461	TTCCAGCCTGTGCCCTCCTGGTGCAGTGTGCCATCTACCTCTGGCTCTCCTGGT 2520
Db	2906	TTCCAGCCTGTGCCCTCCTGGTGCAGTGTGCCATCTACCTCTGGCTCTCCTGGT 2965
Qy	2521	TGGAGGAGATGCCGCAGCTTCTATGACCCGTACGAGTGCAGGCTGATGAAGAAGGCA 2580
Db	2966	TGGAGGAGATGCCGCAGCTTCTATGACCCGTACGAGTGCAGGCTGATGAAGAAGGCA 3025
Qy	2581	GCCTTGTACTTCAGTGACTTCTGAAATAAGCTGGACGTGGCGCAATCTTGCTCTCGT 2640
Db	3026	GCCTTGTACTTCAGTGACTTCTGAAATAAGCTGGACGTGGCGCAATCTTGCTCTCGT 3085
Qy	2641	GCAGGGCTGACCTGCAGGCTCATCCGGCGACGCTGTACCCGGCGCGTCATCCTCT 2700
Db	3086	GCAGGGCTGACCTGCAGGCTCATCCGGCGACGCTGTACCCGGCGCGTCATCCTCT 3145
Qy	2701	CTGGACTTCATCCTGTTCTGCCTCCGGCTATGCACATTTCACATCAGTAAGACGCTG 2760
Db	3146	CTGGACTTCATCCTGTTCTGCCTCCGGCTATGCACATTTCACATCAGTAAGACGCTG 3205
Qy	2761	GGGCCAAGATCATCATTGTGAAGCGGATGATGAAGGACGTCTCTCTCTCTCTG 2820
Db	3206	GGGCCAAGATCATCATTGTGAAGCGGATGATGAAGGACGTCTCTCTCTCTCTG 3265
Qy	2821	CTGGCTGTGGTGGTGGTCTCTGGGGGGCAAGCAGGCCATCCTCATCCACAAACGAG 2880
Db	3266	CTGGCTGTGGTGGTGGTCTCTGGGGGGCAAGCAGGCCATCCTCATCCACAAACGAG 3325
Qy	2881	CGCCGGGTGGACTGGCTGTTCCGAGGGGGCGTCTACCAACTCCTACCCATCTCGG 2940
Db	3326	CGCCGGGTGGACTGGCTGTTCCGAGGGGGCGTCTACCAACTCCTACCCATCTCGG 3385
Qy	2941	CAGATCCCGGGCTACATCGACGGTGTGAACCTCAACCCGGAGCACTGCAGCCCCAATGGC 3000
Db	3386	CAGATCCCGGGCTACATCGACGGTGTGAACCTCAACCCGGAGCACTGCAGCCCCAATGGC 3445
Qy	3001	ACCGACCCCTACAAGCTTAAGTGCCTGGAGAGCGACGCCAGCGCAGCAGAGGCCCTTC 3060
Db	3446	ACCGACCCCTACAAGCTTAAGTGCCTGGAGAGCGACGCCAGCGCAGCAGAGGCCCTTC 3505
Qy	3061	CCTGAGTGGCTGACGGTCTCTACTCTGCTCTACCTGCTCTCACCAACATCTGCTG 3120
Db	3506	CCTGAGTGGCTGACGGTCTCTACTCTGCTCTACCTGCTCTCACCAACATCTGCTG 3565
Qy	3121	CTAACCTCCTCATGCCATGTTCAACTACACCTCCAGCAGGTGCAGGAGCACACGGAC 3180
Db	3566	CTAACCTCCTCATGCCATGTTCAACTACACCTCCAGCAGGTGCAGGAGCACACGGAC 3625
Qy	3181	CAGATTGGAAAGTTCAGGCCATGACCTGATCGAGGAGTACCAACGGCCGCCCCCGCG 3240
Db	3626	CAGATTGGAAAGTTCAGGCCATGACCTGATCGAGGAGTACCAACGGCCGCCCCCGCG 3685
Qy	3241	CCGCCCCCTCATCCTCCTAGCCACCTGCAGCTCTCATCAAGAGGGTGGTCTGAAG 3300

Db	3686	CCGCCCCCTTCATCCTCCAGCCACCTGCAGCTCTCATCAAGAGGGTGGTCTGAAG 3745
Qy	3301	ACTCCGGCCAAGAGGCACAAGCAGCTCAAGAACAAAGCTGGAGAAGAACGAGGAGGCC 3360
Db	3746	ACTCCGGCCAAGAGGCACAAGCAGCTCAAGAACAAAGCTGGAGAAGAACGAGGAGGCC 3805
Qy	3361	CTGCTATCCTGGGAGATCTACCTGAAGGAGAACTACCTCCAGAACCGACAGTTCAGCAA 3420
Db	3806	CTGCTATCCTGGGAGATCTACCTGAAGGAGAACTACCTCCAGAACCGACAGTTCAGCAA 3865
Qy	3421	AAGCAGCGGCCGAGCAGAACAGATCGAGGACATCAGCAATAAGGTTGACGCCATGGTGGAC 3480
Db	3866	AAGCAGCGGCCGAGCAGAACAGATCGAGGACATCAGCAATAAGGTTGACGCCATGGTGGAC 3925
Qy	3481	CTGCTGGACCTGGACCCACTGAAGAGGTGGGCTCCATGGAGCAGAGGTTGGCTCCCTG 3540
Db	3926	CTGCTGGACCTGGACCCACTGAAGAGGTGGGCTCCATGGAGCAGAGGTTGGCTCCCTG 3985
Qy	3541	GAGGAGCAGGTGGCCCAGACAGCCGAGCCCTGCACTGGATCGTGAGGACGCTGGGGCC 3600
Db	3986	GAGGAGCAGGTGGCCCAGACAGCCGAGCCCTGCACTGGATCGTGAGGACGCTGGGGCC 4045
Qy	3601	AGCGGCTTCAGCTCGAGGGCGACGTCCCCACTCTGGCTCCAGAACGGCGGGAGGAG 3660
Db	4046	AGCGGCTTCAGCTCGAGGGCGACGTCCCCACTCTGGCTCCAGAACGGCGGGAGGAG 4105
Qy	3661	CCGGATGCTGAGCCGGGAGGCAGGAAGAACGCGGAGGCCGGCACAGCTACACGTG 3720
Db	4106	CCGGATGCTGAGCCGGGAGGCAGGAAGAACGCGGAGGCCGGCACAGCTACACGTG 4165
Qy	3721	AATGCCCGGCACCTCCCTACCCCAACTGCCCCGTACCGCCTCCCGTGCACGAG 3780
Db	4166	AATGCCCGGCACCTCCCTACCCCAACTGCCCCGTACCGCCTCCCGTGCACGAG 4225
Qy	3781	AAGGTGCCCTGGGAGACGGAGTTCTGATCTATGACCCACCCCTTTACACGGCAGAGGG 3840
Db	4226	AAGGTGCCCTGGGAGACGGAGTTCTGATCTATGACCCACCCCTTTACACGGCAGAGGG 4285
Qy	3841	AAGGACCGGGCCATGGACCCCATGGAGACACCCCTGGAGCCACTGTCCACGATCCAG 3900
Db	4286	AAGGACCGGGCCATGGACCCCATGGAGACACCCCTGGAGCCACTGTCCACGATCCAG 4345
Qy	3901	TACAACGTGGTGGATGGCTGAGGGACCCCGGAGCTCCACGGGCGTACACAGTGCAG 3960
Db	4346	TACAACGTGGTGGATGGCTGAGGGACCCCGGAGCTCCACGGGCGTACACAGTGCAG 4405
Qy	3961	GCCGGGTTGCCCTGAACCCCATGGGCCGACAGGACTGCGTGGGCGGGAGCCTCAGC 4020
Db	4406	GCCGGGTTGCCCTGAACCCCATGGGCCGACAGGACTGCGTGGGCGGGAGCCTCAGC 4465
Qy	4021	TGCTTCGGACCCAACCACAGCTGTACCCCATGGTCACGCGTGGAGGCGAACGAGGAT 4080
Db	4466	TGCTTCGGACCCAACCACAGCTGTACCCCATGGTCACGCGTGGAGGCGAACGAGGAT 4525
Qy	4081	GGAGCCATCTGCAGGAAGAGCATAAAGAACATGCTGGAAAGTGTGCTGGTGTGAAGCTCCCT 4140
Db	4526	GGAGCCATCTGCAGGAAGAGCATAAAGAACATGCTGGAAAGTGTGCTGGTGTGAAGCTCCCT 4585
Qy	4141	CTCTCCGAGCACTGGGCCCTGCCTGGGGCTCCGGGAGCCAGGGGAGATGCTACCTCGG 4200
Db	4586	CTCTCCGAGCACTGGGCCCTGCCTGGGGCTCCGGGAGCCAGGGGAGATGCTACCTCGG 4645
Qy	4201	AAGCTGAAGCGGATCCTCCGGCAGGAGCACTGGCGTCTTTGAAAACCTGCTGAAGTGC 4260
Db	4646	AAGCTGAAGCGGATCCTCCGGCAGGAGCACTGGCGTCTTTGAAAACCTGCTGAAGTGC 4705
Qy	4261	GGCATGGAGGTGTACAAAGGCTACATGGATGACCCGAGGAACACGGACAATGCCTGGATC 4320
Db	4706	GGCATGGAGGTGTACAAAGGCTACATGGATGACCCGAGGAACACGGACAATGCCTGGATC 4765

Qy 4321 GAGACGGTGGCCGTCAAGCGTCCACTTCAGGACCAGAATGACGTGGAGCTGAACAGGCTG 4380
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Db 4766 GAGACGGTGGCCGTCAAGCGTCCACTTCAGGACCAGAATGACGTGGAGCTGAACAGGCTG 4825
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Qy 4381 AACTCTAACCTGCACGCCTGCGACTCGGGGCCTCCATCCGATGGCAGGTGGTGGACAGG 4440
|||
Db 4826 AACTCTAACCTGCACGCCTGCGACTCGGGGCCTCCATCCGATGGCAGGTGGTGGACAGG 4885
|||
Qy 4441 CGCATCCCCTCTATGCGAACCAAGACCCCTCCAGAAGGCAGCCGCTGAGTTGGG 4500
|||
Db 4886 CGCATCCCCTCTATGCGAACCAAGACCCCTCCAGAAGGCAGCCGCTGAGTTGGG 4945
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Qy 4501 GCTCACTACTGA 4512
|||
Db 4946 GCTCACTACTGA 4957

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=> s fleig andrea/au
L2 76 FLEIG ANDREA/AU

=> s ltrpc2 (s) screen?
L3 3 LTRPC2 (S) SCREEN?

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 3 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 14 total ibib

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:320077 CAPLUS
DOCUMENT NUMBER: 138:331656
TITLE: Method for screening cell death inhibitor
INVENTOR(S): Sano, Yorikata; Inamura, Kohei; Miyake, Akira; Yokoi, Hiromichi; Nozawa, Katsura; Mochizuki, Shinobu
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033727	A1	20030424	WO 2002-JP8128	20020808
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			JP 2001-315339	A 20011012
			JP 2002-21175	A 20020130
REFERENCE COUNT:	6		THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:575231 CAPLUS
DOCUMENT NUMBER: 137:119632
TITLE: Screening for modulators of human Ca²⁺-ATP regulated long transient receptor potential channel (LTRPC7)
INVENTOR(S): Penner, Reinhold; Fleig, Andrea
PATENT ASSIGNEE(S): The Queen's Medical Center, USA

SOURCE: PCT Int. Appl., 80 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059307	A2	20020801	WO 2001-US47784	20011113
WO 2002059307	A3	20030605		
	W: AU, CA, JP			
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
EP 1337635	A2	20030827	EP 2001-270129	20011113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR			
PRIORITY APPLN. INFO.:			US 2000-248235P	P 20001113
			US 2000-254468P	P 20001208
			WO 2001-US47784	W 20011113

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:368512 CAPLUS
 DOCUMENT NUMBER: 136:363809
 TITLE: Protein and cDNA sequences of a novel human long transient receptor potential channel (**LTRPC2**) and methods of **screening** for its modulators
 INVENTOR(S): Penner, Reinhold; Fleig, Andrea
 PATENT ASSIGNEE(S): The Queen's Medical Center, USA
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038608	A2	20020516	WO 2001-US47331	20011113
WO 2002038608	A3	20030313		
WO 2002038608	C2	20030530		
	W: AU, CA, JP			
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
AU 2002028903	A5	20020521	AU 2002-28903	20011113
US 2002182635	A1	20021205	US 2001-7706	20011113
EP 1334129	A2	20030813	EP 2001-990026	20011113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR			
PRIORITY APPLN. INFO.:			US 2000-248442P	P 20001113
			US 2000-254528P	P 20001208
			WO 2001-US47331	W 20011113